

**Amendments to the Specification:**

Please amend lines 6-7 of page 4 as follows:

reconstructs the transmitted bits synchronous relative to a local clock. The reconstructed waveform is ~~[[the]]~~ decoded in the normal manner.

Please amend line 13 of page 9 as follows:

Thus, the barrel shifter ~~[[402]]~~ 401 of the invention provides two pieces of